

This circular will be sent regularly to all who apply for it.

United States Department of Agriculture,

WASHINGTON, D. C., December 31, 1915.

MONTHLY LIST OF PUBLICATIONS.

[DECEMBER, 1915.]

HOW TO SECURE PUBLICATIONS.

A copy of any of the publications listed herein, including those with price named, except the *Journal of Agricultural Research*, Experiment Station Record, and publications of the Weather Bureau, may be obtained free upon application to the Editor and Chief of the Division of Publications, United States Department of Agriculture, Washington, D. C., as long as the department's supply lasts.

Instead of writing a letter, applicants may return this list with an "X" plainly marked on the left-hand margin opposite the publication desired, and with name and address plainly written at top or end of list.

After this department's supply of the publications listed below is exhausted, those publications of which the price is indicated can still be obtained from the Superintendent of Documents, Government Printing Office, Washington, D. C., but by purchase only, and at the prices noted herein.

Send all remittances to the Superintendent of Documents direct. His office is not a part of the Department of Agriculture.

REPORTS.

- Annual Report of the Secretary of Agriculture, 1915. Pp. 55.
Annual Report of the Chief of the Division of Accounts and Disbursements, 1915. Pp. 3.
Annual Report of the Chief of the Bureau of Animal Industry, 1915. Pp. 66.
Annual Report of the Chief of the Bureau of Biological Survey, 1915. Pp. 15.
Annual Report of the Chemist, 1915. Pp. 10.
Annual Report of the Chief of the Bureau of Crop Estimates, 1915. Pp. 7.
Annual Report of the Editor, 1915. Pp. 21.
Annual Report of the Entomologist, 1915. Pp. 21.
Annual Report of the Director of the Office of Experiment Stations, 1915. Pp. 18.
Annual Report of the Federal Horticultural Board, 1915. Pp. 11.
Annual Report of the Forester, 1915. Pp. 30.
Annual Report of the Insecticide and Fungicide Board, 1915. Pp. 4.
Annual Report of the Librarian, 1915. Pp. 11.
Annual Report of the Chief of the Office of Markets and Rural Organization, 1915. Pp. 38.
Annual Report of the Chief of the Bureau of Plant Industry, 1915. Pp. 16.
Annual Report of the Director of the Office of Public Roads, 1915. Pp. 14.
Annual Report of the Chief of the Bureau of Soils, 1915. Pp. 10.
Annual Report of the Solicitor, 1915. Pp. 29.
Annual Report of the Chief of the Weather Bureau, 1915. Pp. 20.
Report on the Work and Expenditures of the Agricultural Experiment Stations During the Fiscal Year Ended June 30, 1914. Pp. 289. (Office of Experiment Stations.) Price, 20 cents.

SERIALS.

- Journal of Agricultural Research*. (Issued weekly.)
Vol. 5, No. 10. Dec. 6, 1915. Contents: Inheritance of Length of Pod in Certain Crosses. By John Belling.—A Honeycomb Heart-Rot of Oaks Caused by Stereum subpileatum. By William H. Long.—Measurement of the Winter Cycle in the Egg Production of Domestic Fowl. By Raymond Pearl.—Influence of Growth of Cowpeas upon Soil. Physical, Chemical, and Biological Properties of Soil. By C. A. LeClair. Pp. 405-448, pls. XL-XLII, figs. 2. Price, 15 cents.

Journal of Agricultural Research—Continued.

Same, No. 11. Dec. 13, 1915. Contents: Translocation of Mineral Constituents of Seeds and Tubers of Certain Plants during Growth. By G. Davis Buckner.—Fate and Effect of Arsenic Applied as a Spray for Weeds. By W. T. McGeorge.—Angular Leaf-Spot of Cucumbers. By Erwin F. Smith and Mary Katherine Bryan.—Activity of Soil Protozoa. By George P. Koch.—Beriberi and Cottonseed Poisoning in Pigs. By George M. Rommel and E. B. Vedder. Pp. 449-493, pls. XLIII-XLIX. Price, 10 cents.

Same, No. 12. Dec. 20, 1915. Contents: Biology of *Apanteles militaris*. By Daniel G. Tower.—Respiration Experiments with Sweet Potatoes. By Heinrich Hasselbring and Lon A. Hawkins.—Cherry and Hawthorn Sawfly Leaf Miner. By P. J. Parrott and B. B. Fulton.—Variations in Mineral Composition of Sap, Leaves, and Stems of the Wild-Grape Vine and Sugar-Maple Tree. By O. M. Shedd. Pp. 495-542, pls. L-LI. Price, 10 cents.

Same, No. 13. Dec. 27, 1915. Contents: Carbohydrate Transformations in Sweet Potatoes. By Heinrich Hasselbring and Lon A. Hawkins.—Diuresis and Milk Flow. By H. Steenbock.—Petrography of Some North Carolina Soils and Its Relation to Their Fertilizer Requirements. By J. K. Plummer. Pp. 543-581, pl. 1. Price, 10 cents.

NOTE.—Beginning with Volume 5, THE JOURNAL OF AGRICULTURAL RESEARCH will be issued weekly and distributed free *only* to the libraries of agricultural colleges and experiment stations, to large universities, technical schools, and such institutions as make suitable exchanges with the department. It will not be sent free to individuals. The Superintendent of Documents will receive subscriptions for this publication, the price being \$3.00 per year, 52 numbers.

Experiment Station Record, Vol. XXXIII, No. 7, November, 1915. E. W. Allen, Ph. D., Editor. Pp. 601-700. Price, 15 cents.

Same, Vol. XXXIII, No. 8, December, 1915. Pp. 701-800. Price, 15 cents.

Same, Vol. XXXIII, No. 9, Abstract Number. Pp. 801-900. Price, 15 cents.

NOTE.—The Record is a technical review of the world's scientific literature pertaining to agriculture. It is not intended for general distribution, and its free distribution is restricted to persons connected with the agricultural colleges, experiment stations, and similar institutions, and to libraries and exchanges. It can not be sent free to individuals having no official connection with public institutions. The Superintendent of Documents will receive subscriptions for this publication, which is issued in two volumes a year, ten numbers each, at \$1 a volume.

The Monthly Crop Report. Vol. 1, No. 8, Dec. 30, 1915. Pp. 77-92. (Bureau of Crop Estimates.)

Contains data relating to agriculture, including estimates of acreage, conditions, yield, prices and value of crops and live stock, and crop summary for 1915.

SERVICE AND REGULATORY ANNOUNCEMENTS.

These contain *only* information, instructions, and notices governing the enforcement of the food and drug act, meat inspection, 28 hour and quarantine laws, and the various regulations of the department. Issued monthly by certain bureaus. *Free distribution* is limited to persons in the employ of the department, to public officials whose duties render it necessary for them to have such information, to journals especially concerned, and to manufacturers and firms whose business is affected by same. Others desiring copies are respectfully referred to the Superintendent of Documents, Government Printing Office, who has them for sale *only*, at prices noted.

Bureau of Animal Industry. No. 103. November, 1915. Pp. 121-128. Dec. 23, 1915. Price, 5 cents.

Federal Horticultural Board. No. 21. October, 1915. Pp. 81-86. Dec. 4, 1915. Price, 5 cents.

Federal Horticultural Board. No. 22. November, 1915. Pp. 87-90. Dec. 23, 1915. Price, 5 cents.

Insecticide and Fungicide Board. No. 12. Pp. 91-99. Dec. 31, 1915. Price, 5 cents.

SOIL SURVEYS.

Soil Survey of Colquitt County, Georgia. By A. T. Sweet and J. B. R. Dickey. Pp. 39, pls. 2, fig. 1, map. (From F. O. Soils, 1914.) Price, 15 cents.

Soil Survey of Dekalb County, Georgia. By David D. Long, of the Georgia State College of Agriculture, and Mark Baldwin, of the U. S. Department of Agriculture. Pp. 25, fig. 1, map. (From F. O. Soils, 1914.) Price, 15 cents.

Soil Survey of Tattnall County, Georgia. By Arthur E. Taylor, Thomas D. Rice, Cornelius Van Dune, and E. H. Stevens. Pp. 48, fig. 1, map. (From F. O. Soils, 1914.) Price, 15 cents.

Soil Survey of Clinton County, Indiana. By W. E. Tharp, of the U. S. Department of Agriculture, and R. H. Peacock and C. M. Rose, of the Indiana Department of Geology. Pp. 28, fig. 1, map. (From F. O. Soils, 1914.) Price, 15 cents.

Soil Survey of Clarke County, Mississippi. By A. L. Goodman, of the U. S. Department of Agriculture, and E. M. Jones, of the Mississippi Geological Survey. Pp. 41, fig. 1, map. (From F. O. Soils, 1914.) Price, 15 cents.

Soil Survey of Scotts Bluff County, Nebraska. By L. T. Skinner, of the Nebraska Soil Survey, and M. W. Beck, of the U. S. Department of Agriculture. Pp. 43, fig. 1, map. (From F. O. Soils, 1913.) Price, 15 cents.

Soil Survey of Chesterfield County South Carolina. By W. J. Latimer, M. W. Beck, J. M. Snyder, L. Cantrell, and N. M. Kirk. Pp. 43, pl. 1, fig. 1, map. (From F. O. Soils, 1914.) Price, 15 cents.

Soil Survey of Dane County, Wisconsin. By W. J. Geib and Arthur E. Taylor, of the U. S. Department of Agriculture, and Guy Conrey, of the Wisconsin Geological and Natural History Survey. Pp. 78, fig. 1, map. (From F. O. Soils, 1913.) Price, 15 cents.

Reconnaissance Soil Survey of Northeastern Wisconsin. By W. J. Geib, L. R. Schoenmann, and Arthur E. Taylor, of the U. S. Department of Agriculture, and A. L. Buser, Carl C. Thompson, and Clinton B. Post, of the Wisconsin Geological and Natural History Survey. Pp. 101, pls. 8, figs. 2, map. (From F. O. Soils, 1913.) Price, 25 cents.

BULLETINS.

The publications listed below are technical or scientific treatises or bulletins applying to a special industry or locality. As long as the department's supply lasts, these bulletins will be supplied free to persons who can use such specialized information. See instructions on page 1.

The Ashes: Their Characteristics and Management. By W. D. Sterrett, Forest Examiner, Forest Service. Pp. 88, pls. 14. Contribution from the Forest Service. (Professional Paper.) Dec. 13, 1915. (Department Bulletin 299.) Price, 25 cents.

Describes uses for, various species, and methods of reproduction of this valuable tree. Of especial interest to manufacturers of wooden articles.

Tests of Corn Varieties on the Great Plains. By L. L. Zook, Physiologist, Office of Corn Investigations. Pp. 19, figs. 4. Contribution from the Bureau of Plant Industry. (Professional Paper.) Dec. 14, 1915. (Department Bulletin 307.) Price, 5 cents.

Of particular interest to farmers, investigators, and teachers in the Great Plains area.

Methods for the Examination of Bituminous Road Materials. By Prevost Hubbard, Chemical Engineer, and Charles S. Reeve, Chemist. Pp. 48, figs. 20. Contribution from the Office of Public Roads and Rural Engineering. (Professional Paper.) Dec. 10, 1915. (Department Bulletin 314.) Price, 10 cents.

A revision of Office of Public Roads Bulletin 38. Technical in character and of interest to Engineers and Road Contractors.

Willows: Their Growth, Use, and Importance. By George N. Lamb, Forest Examiner. Pp. 52, pls. 10. Contribution from the Forest Service. (Professional Paper.) Dec. 20, 1915. (Department Bulletin 316.) Price, 15 cents.

Contains general information as to the various uses for willows and their propagation.

Importance and Character of the Milled Rice Imported into the United States. By F. B. Wise, Assistant in Grain Standardization. Pp. 8, pl. 1, fig. 1. Contribution from the Bureau of Plant Industry. Dec. 4, 1915. (Department Bulletin 323.) Price, 5 cents.

Of interest to growers, shippers, and importers of rice.

Community Production of Durango Cotton in the Imperial Valley. By Argyle McLachlan, Scientific Assistant, Office of Western Irrigation Agriculture. Pp. 16. Contribution from the Bureau of Plant Industry. Dec. 22, 1915. (Department Bulletin 324.) Price, 5 cents.

Of especial interest to those growing cotton under irrigation.

Milling and Baking Tests of Wheat Containing Admixtures of Rye, Corn Cockle, Kinghead, and Vetch. By R. C. Miller, Assistant in Charge of Dockage Investigations, Office of Grain Standardization. Pp. 24, pls. 2, figs. 10. Contribution from the Bureau of Plant Industry. (Professional Paper.) Dec. 30, 1915. (Department Bulletin 328.) Price, 10 cents.

The data presented in this bulletin are applicable to the wheat-producing sections of the United States and are of interest to farmers, grain dealers, flour millers, and bakers.

Directions for Blueberry Culture, 1916. By Frederick V. Coville, Botanist. Pp. 16, pls. 17. Contribution from the Bureau of Plant Industry. (Professional Paper.) Dec. 28, 1915. (Department Bulletin 334.) Price, 15 cents.

Describes soil requirements, methods of planting, and yields and profits.

Experiments in Vaccination Against Anthrax. By Adolph Eichhorn, Chief of the Pathological Division. Pp. 16. Contribution from the Bureau of Animal Industry. (Professional Paper.) Dec. 27, 1915. (Department Bulletin 340.) Price, 5 cents.

Of interest to stock raisers and veterinarians generally.

MISCELLANEOUS.

The Acarina or Mites. A Review of the Group for the Use of Economic Entomologists. By Nathan Banks, Entomological Assistant. Pp. 153, figs. 294. Contribution from the Bureau of Entomology. Dec. 15, 1915. (Report No. 108, Office of the Secretary.) Price, 30 cents.

Not for miscellaneous distribution.

Inventory of Seeds and Plants Imported by the Office of Foreign Seed and Plant Introduction, During the Period from July 1 to September 30, 1913. Pp. 74, pls. 6. Dec. 23, 1915. (Bureau of Plant Industry Inventory No. 36, Nos. 35667 to 36258.) Price, 15 cents.

Not for miscellaneous distribution.



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FARMERS' BULLETINS.

No price is quoted for Farmers' Bulletins for the reason that the department's supply of the current numbers is ordinarily sufficient to make it possible to send them free to all applicants.

Duck Raising. By Alfred R. Lee, Animal Husbandman in Poultry Investigations, Animal Husbandry Division. Pp. 23, figs. 13. Contribution from the Bureau of Animal Industry. Dec. 31, 1915. (Farmers' Bulletin 697.)

For general distribution.

Trenching Machinery Used for the Construction of Trenches for Tile Drains. By D. L. Yarnell, Drainage Engineer, Division of Drainage Investigations. Pp. 27, figs. 15. Contribution from the Office of Public Roads and Rural Engineering. Dec. 28, 1915. (Farmers' Bulletin 698.)

Describes the types of trenching machines, and discusses the limiting conditions of work and the cost of trenching. It will be of service to those whose lands need tile drainage. It does not deal with drainage of irrigated lands, where the requirements for good trenching machines are often unusual and the cost of work much greater.

PUBLICATIONS OF THE WEATHER BUREAU.

Publications of the Weather Bureau are obtainable only from the Chief of the Weather Bureau or the Superintendent of Documents, Government Printing Office, at the prices noted herein.

National Weather and Crop Bulletin, No. 31, November, 1915, reporting temperature, rainfall, and crop conditions throughout the United States. (Issued weekly, on Wednesday, April to October; monthly remainder of year.) Price, 25 cents a year.

Snow and Ice Bulletins for December 7, 14, 21, 28. These bulletins are issued weekly during the winter seasons, based upon data from regular Weather Bureau stations, supplemented by reports from selected cooperative observers. Price, 25 cents a year.

JOS. A. ARNOLD,

Editor and Chief Division of Publications.